CLAIM AMENDMENTS

The claims are amended as follows.

1. - 30 (Cancelled)

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31. (New) A method for operating a laser having a gain medium, comprising: deviating a nominal operating setting of an optical element of a cavity of the laser to induce a voltage change across the gain medium;

sensing the voltage change across the gain medium in response to the deviating;

adjusting the nominal operating setting of the optical element in response to the sensed voltage change to tune the optical element.

- 32. (New) The method of claim 31 wherein the gain medium comprises a semiconductor gain medium.
- 33. (New) The method of claim 32 wherein deviating the nominal operating setting of the optical element includes dithering the nominal operating setting.
- 34. (New) The method of claim 32 wherein deviating the nominal operating setting of the optical element includes deviating a nominal operating position of the optical element.
- 35. (New) The method of claim 32 wherein deviating the nominal operating setting of the optical element includes deviating a nominal index of refraction of the optical element.
- 36. (New) The method of claim 32 wherein deviating the nominal operating setting of the optical element includes deviating a nominal voltage applied to the optical element.

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- 38. (New) The method of claim 32 wherein the optical element is one of an end mirror of the cavity, a grid generator, and a channel selector.
- 39. (New) The method of claim 32 wherein adjusting the nominal operating setting includes adjusting the nominal operating to reduce a voltage sensed across the gain medium.
 - 40. (New) The method of claim 31, further comprising:

deviating a plurality of nominal operating settings of a corresponding plurality of optical elements of the cavity to induce the voltage change across the gain medium; and

adjusting the plurality of nominal operating settings of the corresponding plurality of optical elements in response to the sensed voltage to tune the plurality of optical elements.

- 41. (New) The method of claim 40 wherein the plurality of nominal operating settings are deviated and adjusted sequentially.
- 42. (New) The method of claim 40 wherein the plurality of nominal operating settings are deviated and adjusted simultaneously.
 - 43. (New) A laser apparatus, comprising:
 - a gain medium to emit an optical beam along an optical path;
 - a reflector positioned in the optical path and defining a laser cavity;
- a voltage sensor operatively coupled to the gain medium to monitor voltage across the gain medium; and

a control system operatively coupled to the voltage sensor and to an optical element positioned in the optical path, the control system to deviate a nominal operating

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setting of the optical element to induce a voltage change across the gain medium and to adjust the nominal operating setting in response to the voltage change to tune the optical element.

- 44. (New) The laser apparatus of claim 43 wherein the control system further to dither the nominal operating setting to induce a modulated voltage across the gain medium and to adjust the nominal operating setting in response to the modulated voltage to tune the optical element.
- 45. (New) The laser apparatus of claim 44 wherein the control system comprises:

a dither element to dither the nominal operating setting of the optical element;

an adjustment element to adjust the nominal operating setting of the optical element.

46. (New) The laser apparatus of claim 44, further comprising:

a plurality of optical elements positioned in the optical path having a corresponding plurality of nominal operating settings, the control system operatively coupled to each of the plurality of optical elements to deviate the corresponding plurality of nominal operating settings to induce the voltage change across the gain medium and to adjust the plurality of nominal operating settings in response to the voltage change to tune the plurality of optical elements.

- 47. (New) The laser apparatus of claim 46 wherein the control system to deviate and adjust the plurality of nominal operating settings sequentially.
- 48. (New) The laser apparatus of claim 46 wherein the control system to deviate and adjust the plurality of nominal operating settings simultaneously.

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49. (New) The laser apparatus of claim 43 wherein the optical element comprises the reflector.

- 50. (New) The laser apparatus of claim 43 wherein the optical element comprises one of a grid generator, a channel selector, and an electro-optic tuning element.
- 51. (New) The laser apparatus of claim 43 wherein the nominal operating setting includes one of a nominal operating position of the optical element, a nominal voltage applied to the optical element, and a nominal temperature of the optical element.
- 52. (New) A laser apparatus, comprising:

 means for emitting an optical beam along an optical path;

 means for defining a laser cavity along the optical path;

 means for producing a loss characteristic, the means for producing the loss characteristic positioned in the optical path;

means for sensing a voltage change across the means for emitting the optical beam; and

means for adjusting the means for producing the loss characteristic in response to the voltage change.

- 53. (New) The laser apparatus of claim 52 wherein the means for defining a laser cavity comprises the means for producing a loss characteristic.
- 34. (New) The laser apparatus of claim 52, further comprising a means for dithering the means for producing the loss characteristic.

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